

RECENT PAPERS BEARING ON METEOROLOGY AND SEISMOLOGY.

C. F. TALMAN, Professor in Charge of Library.

The following titles have been selected from the contents of the periodicals and serials recently received in the Library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

Aeronautical journal. London. v. 23. October, 1919.Dyott, G. M. Possibilities of aerial transport in Peru. p. 521-529.
[Includes details of wind conditions in the Andes.]*Aeronautics.* London. v. 17. 1919.Stewart, C. W. Sound in an irregular atmosphere. p. 467.
(Nov. 20.) [Repr. Physical Review.]

"Meteor". Weather and aviation. p. 490-491. (Nov. 27.)

American society of heating and ventilating engineers. Journal. New York. v. 25. October, 1919.

Hill, E. V. & Armsbach, Otto W. Further studies in methods of dust determination. p. 391-406.

Aviation. New York. v. 7. 1919.

Lyons, H. G. The supply of meteorological information. p. 346-348. (Nov. 15.)

Coffin, J. G. Explanation of peculiarities observed in flying in the wind. p. 383-385. (Dec. 1.)

Engineering news-record. New York. v. 83. 1919.Determination of water-supply from snow fields. p. 766-768.
(Oct. 23.)

Lippincott, J. B., & Horton, Robert E. More accuracy needed in collecting data on rainfall. p. 830-831. (Oct. 30-Nov. 6.)

Bartlett, Terrell. The tidal storm at Corpus Christi and the effect on engineering structures. p. 848-852. (Nov. 19-20.)

Horner, W. W. Heavy rain destroys sewer and railway at St. Louis. p. 958. (Nov. 27-Dec. 4.)

Henry, Alfred J. Floods on the lower Rio Grande in New Mexico and Texas. p. 1001-1002. (Dec. 11-18.) [Reprint from Mo. Wea. Rev.]

Franklin institute. Journal. Philadelphia. v. 188. December, 1919.
Humphreys, William Jackson. Factors of climatic control. p. 775-810. [Continuation.]*Great Britain. Meteorological office. Circular.* London. no. 42. December 1, 1919.

Duffield, W. G. The behaviour of marine barometers on board ship. p. 4-5.

Drebbe. Meteorological calendar in Malaysia. p. 6-7. [Abstract from *Tilburgsche Annalen*.]

Gurney, F. J. Irrigation with dew. p. 7.

The Pickwickian Christmas temperatures at Dingley Dell. p. 7-8.
London. Edinburgh and Dublin philosophical magazine. London. November, 1919.

McLeod, A. R. On terrestrial refraction. p. 346-368.

Nature. London. v. 104. 1919.

Skinner, Sydney. Radiation temperature: Dew. p. 277. (Nov. 13.)

Christmas, W. D. Exceptional dryness of October, 1919. p. 278.

(Nov. 13.)

Forbes, Henry O. The audibility of thunder. p. 315. (Nov. 20.) [Interval of 320 seconds between flash and sound.]

Lyons, Henry George. Lt. Col. B. F. E. Keeling. p. 317-318.

(Nov. 20.) [Obituary.]

K., C. G. Dr. John Aitken, F. R. S. p. 337-338. (Nov. 27.) [Obituary.]

Scientific American supplement. New York. v. 88. 1919.

Chapman, S. Electrical phenomena in the upper atmosphere. p. 198-199; 202; 323. (Sept. 27; Nov. 29.)

Poulton, Faville C. Wind motors. Their possibilities and limitations. p. 286-287. (Nov. 15.) [Repr. Jour. Roy. Soc. Arts.]

Baner, A. E. Electrical conditions of the earth and atmosphere.

Their influence upon animate nature. p. 290-291. (Nov. 15.)

Trieschmann, Jacob E. Nitrogen and other compounds in rain and snow. p. 328. (Nov. 29.) [Repr. Chemical News.]

Symons's meteorological magazine. London. v. 54. November, 1919.Bonacina, L. C. W. On the designations: rain, snow, hail. p. 115.
[Recommends classifying common hail, graupel and ice-rain together as "hail."]

Lieut. Col. B. E. F. Keeling, M. C., R. E. p. 120. [Obituary.]

France. Académie des sciences. Comptes rendus. Tome 169. 1919.
Garrigou-Lagrange, Paul. La cinématographie des mouvements atmosphériques et la prévision du temps. p. 867-868. (10 nov.)

Brazier, C. E. Sur les rapports du vent avec le gradient dans les couches basses de l'atmosphère. p. 869-871. (10 nov.)

Baldit, Albert. Sur l'effet produit par l'électricité de la pluie sur un fil isolé. p. 910-912. (17 nov.) [Investigation of conjectured effect on electric conducting lines of the electric charge of raindrops.]

Dechevrens, Marc. Modification et complément apportés à la méthode d'observation des courants telluriques à l'aide de conducteurs nus souterrains. p. 985-988. (24 nov.)

France. Service météorologique du Ministère de la guerre. Bulletin. Paris. Juillet 1919.

Météorologie et T. S. F. p. 2-41. [Detailed account of existing wireless weather services in Europe, with telegraphic codes, map of stations, etc.]

Note sur les sections de sondages par le son. p. 42-51.

État actuel de la météorologie d'artillerie. p. 52-59.

Nature. Paris. 47 ans. 6 décembre 1919.
Rudaux, L. La chute de neige de novembre. p. 367-368.
[Unprecedented abundance of snow during November in France.]*Annalen der Physik.* Leipzig. Band 59, H. 1. 1919.

Stuchtey, Karl. Untersuchungen und Lichtsäulen an Sonne und Mond. p. 33-55.

Geographische Zeitschrift. Leipzig. 25. Jahrgang. 7. Heft. 1919.
Richter, Wilhelm R. Grundsätze wetter- und klimakundlicher Lehrfilme. p. 210-215.*Naturwissenschaften.* Berlin. 7. Jahrgang. 1917.

Wigand, Albert. Aerophysikalische Forschungen mit dem Flugzeug. p. 487-491. (11. Juli.)

Hennig, R. Über den Unterricht in präziser Wetterkunde. p. 511-512. (18. Juli.) [Abstract.]

Hellmann, Gustav. Über den Bodenwind. p. 512. (18. Juli.) [Abstract.]

Swinne, R. Zum Ursprung der durchdringenden Höhenstrahlung. p. 529-530. (25. Juli.)

Poermanns Mitteilungen. Gotha. 65. Jahrgang. Januar/Februar 1919.

Neumann, Ludwig. Georg Gerland. p. 22-23. [Obituary.]

Physikalische Zeitschrift. Leipzig. 20. Jahrgang. 1919.
Löwy, Heinrich. Zur Erforschung der Atmosphäre bei unsichtigen Wetter. p. 175-183. (15. Apr.) [Describes acoustic method of observing pilot balloons.]

Löwy, Heinrich, & Weyhing, Emil. Akustische Pilotversuche. p. 203-207. (1. Mai.)

Käler, Karl. Strahlungs- und Helligkeitsmessungen in Kohlberg während der Sonnenfinsternis vom 21. August 1914. p. 340-344. (1. Aug.)

Seeliger, R. Der Böenmesser, ein neues Instrument zur hydrodynamic Untersuchung des Windes. p. 403-407. (1. Sept.)

Geitel, H. Zur Frage nach dem Ursprung der Niederschlagselktrizität. p. 455-464. (1. Sept.)

Pronebus. Leipzig. Jahrgang 30. 3. Mai 1919.

Fehlinger, Hans. Die Austrocknung Zentralasiens. p. 241-242.

Zeitschrift für Instrumentenkunde. Berlin. 39. Jahrgang. 1919.
Warburg, E., & Heuse, W. Über Aneroide. p. 41-55. (Febr.)

Hoffmann, F., & Meissner, W. Vergleichungen von Quecksilberthermometern mit dem Platinthermometer. III. Ausdehnung des Quecksilbers in Temperaturen bis 500°. p. 212-224. (Juli.)

Hemel en dampkring. Den Haag. 17 Jaarg. October 1919.

Nell, C. De zomertijd van een meteorologisch standpunt bezien. p. 88-90.

Reale società geografica italiana. Bollettino. Roma. v. 8. Marzo-Aprile 1919.

Almagia, Roberto. Giovanni Anfossi. p. 244-246. [Obituary.]

Società degli spettroscopisti italiani. Memorie. Catania. v. 8. Settembre 1919.

Millosevich, E. Anubale Riccò. n. p. [Obituary.]